

ORDER FOR SUPPLIES OR SERVICES

PAGE 1 OF 9

1. CONTRACT/PURCH ORDER/AGREEMENT NO N00014-14-D-0377		2. DELIVERY ORDER/CALL NO 0002		3. DATE OF ORDER/CALL (YYYYMMDD) 8/21/2014		4. REQUISITION/PURCH REQUEST NO 14PR06822-00		5. PRIORITY					
6. ISSUED BY Office of Naval Research Brian Kehoe (703) 588-2440 Code 254, Brian.Kehoe@navy.mil 875 North Randolph Street Arlington VA 22203		CODE N00014		7. ADMINISTERED BY (if other than 6) ONR REG ADMIN ATLANTA ATLANTA REGION OFFICE 100 ALABAMA STREET SW SUITE 4R15 ATLANTA GA 30303-3104		CODE N66020		8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)					
9. CONTRACTOR Advanced Technology International Attn: NATALIE CORELLA 5300 INTERNATIONAL BLVD. CHARLESTON SC 294186937		CODE 1G3V8		FACILITY		10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD) Multiple		11. X IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED					
14. SHIP TO Office of Naval Research Attn: Neil Graf; Code 03TMT 875 North Randolph Street Arlington VA 22203		CODE N00014		15. PAYMENT WILL BE MADE BY DFAS COLUMB SOUTH ENTL-HQ0338 PO BOX 182264 COLUMBUS OH 43218-2264		CODE HQ0338		13. MAIL INVOICES TO THE ADDRESS IN BLOCK					
16. DELIVERY/ CALL <input checked="" type="checkbox"/> X TYPE OF ORDER PURCHASE Advanced Technology International NAME OF CONTRACTOR		This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract. Reference your ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH AND AGREES TO PERFORM THE SAME. SCOTT A SAVOIE VICE PRESIDENT CORPORATE CONTRACTS TYPED NAME AND TITLE 2014 Aug 21 DATE SIGNED (YYYYMMDD)											
<input checked="" type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies.		1											
17. ACCOUNTING AND APPROPRIATION DATA/LOCAL USE See schedule													
18. ITEM NO.		19. SCHEDULE OF SUPPLIES/SERVICES				20. QUANTITY ORDERED/ ACCEPTED*		21. UNIT		22. UNIT PRICE		23. AMOUNT	
		NAVRIS / SDN Number: 1108281 Continued ...											
*If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity.		24. UNITED STATES OF AMERICA BY: Brian Kehoe				(b)(6)		25. TOTAL \$7,600,399.00		26. DIFFERENCES			
27a. QUANTITY IN COLUMN 28 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED:													
b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE						c. DATE (YYYYMMDD)		d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE					
e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE						28. SHIP. NO.		29. D.O. VOUCHER NO.		30. INITIALS			
f. TELEPHONE NUMBER						g. E-MAIL ADDRESS		31. PAID BY PARTIAL FINAL		32. AMOUNT VERIFIED CORRECT FOR		33. CHECK NUMBER	
36. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT. a. DATE (YYYYMMDD)						b. SIGNATURE AND TITLE OF CERTIFYING OFFICER		31. PAYMENT COMPLETE PARTIAL FINAL		34. BILL OF LADING NO.		35. S/R VOUCHER NO.	
37. RECEIVED AT		38. RECEIVED BY (Print)		39. DATE RECEIVED (YYYYMMDD)		40. TOTAL CON-TAINERS		41. S/R ACCOUNT NUMBER		42. S/R VOUCHER NO.			

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED

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NAME OF OFFEROR OR CONTRACTOR

Advanced Technology International

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	Delivery Location Code: N00014 Office of Naval Research Attn: 875 North Randolph Street Suite 1425 Arlington VA 22203 Accounting Info: 0001 The contractor shall provide project development and management for the Navy Shipbuilding and Advanced Manufacturing Center of Excellence (NSAM COE) in accordance with the attached Statement of Work (Attachment 1) Award Type: Cost-plus-fixed-fee Total Estimated Cost: \$2,823,479.00 Fixed Fee: \$129,684.00 Completion Form Period of Performance: 08/21/2014 to 08/20/2016				2,953,163.00
000101	Incremental Funding for CLIN 0001 ACRN AA (Qty:1 and Amt: \$350,000.00)				
0002	OPTION 1: The contractor shall provide project development and management for the Navy Shipbuilding and Advanced Manufacturing Center of Excellence (NSAM COE) in accordance with the attached Statement of Work (Attachment 1) Award Type: Cost-plus-fixed-fee Total Estimated Cost: \$1,452,215.00 Fixed Fee: \$66,966.00 Completion Form Amount: \$1,519,181.00 (Option Line Item) Period of Performance: 08/21/2016 to 08/20/2017				0.00
0003	OPTION 2: The contractor shall provide project development and management for the Navy Shipbuilding and Advanced Manufacturing Center of Excellence (NSAM COE) in accordance with the attached Statement of Work (Attachment 1) Award Type: Cost-plus-fixed-fee Total Estimated Cost: \$1,480,963.00 Fixed Fee: \$68,394.00 Continued ...				0.00

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED

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NAME OF OFFEROR OR CONTRACTOR

Advanced Technology International

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004	<p>Completion Form Amount: \$1,549,357.00 (Option Line Item)</p> <p>Period of Performance: 08/21/2017 to 08/20/2018</p> <p>OPTION 3: The contractor shall provide project development and management for the Navy Shipbuilding and Advanced Manufacturing Center of Excellence (NSAM COE) in accordance with the attached Statement of Work (Attachment 1) Award Type: Cost-plus-fixed-fee Total Estimated Cost: \$1,508,933.00 Fixed Fee: \$69,765.00 Completion Form Amount: \$1,578,698.00 (Option Line Item)</p> <p>Period of Performance: 08/21/2018 to 08/20/2019</p> <p>Accounting Summary AA 1741319-W7KS-255-RA-G1G-0-068342-2D-01050-000-ATC 0 \$350,000.00</p> <p>The total amount of the base and exercised options is 2,953,163</p> <p>The obligated amount of award: \$350,000.00. The total for this award is shown in box 25.</p>				0.00

SECTION C - Description/Sepecifications

ONR 0095 Statement of Work- Task Order

The services to be performed hereunder shall be subject to the requirements and standards contained in Exhibit A and the following paragraph.

The Contractor shall provide all necessary personnel and facilities to perform the services under CLIN(s) 0001 (and 0002 through 0004, if exercised) in accordance with tasks 2.0 through 6.0 as required in the Statement of Work, Attachment Number 1, of this task order.

ONR 0095 Statement of Work- Task Order Continued*

If Option 1 is exercised, the Contractor shall furnish all necessary personnel and facilities to provide the services in accordance with Tasks 2.0 through 6.0 as required by the Statement of Work, Attachment Number 1 of this task order. Services shall be provided from the date the option is exercised through 12 months thereafter.

If Option 2 is exercised, the Contractor shall furnish all necessary personnel and facilities to provide the services in accordance with Tasks 2.0 through 6.0 as required by the Statement of Work, Attachment Number 1 of this task order. Services shall be provided from the date the option is exercised through 12 months thereafter.

If Option 3 is exercised, the Contractor shall furnish all necessary personnel and facilities to provide the services in accordance with Tasks 2.0 through 6.0 as required by the Statement of Work, Attachment Number 1 of this task order. Services shall be provided from the date the option is exercised through 12 months thereafter

ONR 0122 Task Order

This task order award is applicable to CLIN 0001 of the basic contract, N00014-14-D-0377

SECTION D - Packaging and Marking

This section intentionally left blank. See Basic IDIQ Contract.

SECTION E - Inspection and Acceptance

ONR 0120 Inspection and Acceptance- Order

Inspection and acceptance of deliveries under this order will be accomplished by the Program Officer designated below, who shall have thirty (30) days after delivery for acceptance.

Office of Naval Research
Attn: Neil Graf, Code 03TMT
875 North Randolph Street
Arlington, VA 22203-1995
Telephone: 703 696-0344
E-Mail: neil.graf@navy.mil

SECTION F - Deliveries and Performance

ONR 0043 Period of Performance for Task Order

The services performed under CLIN 0001 shall be conducted from date of task order award through twenty-four months thereafter.

ONR 0043 Period of Performance for Task Order- Continued*

If Option 1 is exercised, the services performed under CLIN 0002 shall be from date of option award through 12 months thereafter.

If Option 2 is exercised, the services performed under CLIN 0003 shall be from date of option award through 12 months thereafter.

If Option 3 is exercised, the services performed under CLIN 0004 shall be from date of option award through 12 months thereafter.

ONR 0119 Deliverable/Distribution- Task Order

Distribution, consignment and marking instructions for all deliverables under this task order shall be F.O.B. Destination in accordance with Enclosure Number 1 of Exhibit A. The address for the cognizant Program Officer is in Block 14 on the DD Form 1155 (Page 1) of this task order for items that cannot be sent electronically.

SECTION G - Contract Administration Data

DFAR 252.232-7006 Wide Area WorkFlow Payment Instructions. (MAY 2013)

(a) *Definitions.* As used in this clause-

Department of Defense Activity Address Code (DoDAAC) is a six position code that uniquely identifies a unit, activity, or organization.

Document type means the type of payment request or receiving report available for creation in Wide Area WorkFlow (WAWF).

Local processing office (LPO) is the office responsible for payment certification when payment certification is done external to the entitlement system.

(b) *Electronic invoicing.* The WAWF system is the method to electronically process vendor payment requests and receiving reports, as authorized by DFARS 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.

(c) *WAWF access.* To access WAWF, the Contractor shall-

(1) Have a designated electronic business point of contact in the System for Award Management at <https://www.acquisition.gov>; and

(2) Be registered to use WAWF at <https://wawf.eb.mil/> following the step-by-step procedures for self-registration available at this web site.

(d) *WAWF training.* The Contractor should follow the training instructions of the WAWF Web-Based Training Course and use the Practice Training Site before submitting payment requests through WAWF. Both can be accessed by selecting the "Web Based Training" link on the WAWF home page at <https://wawf.eb.mil/>

(e) *WAWF methods of document submission.* Document submissions may be via web entry, Electronic Data Interchange, or File Transfer Protocol.

(f) *WAWF payment instructions.* The Contractor must use the following information when submitting payment requests and receiving reports in WAWF for this contract/order:

(1) *Document type.* The Contractor shall use the following document type(s).

Cost Voucher.

Note: If a "Combo" document type is identified but not supportable by the Contractor's business systems, an "Invoice" (stand-alone) and "Receiving Report" (stand-alone) document type may be used instead.)

(2) *Inspection/acceptance location.* The Contractor shall select the following inspection/acceptance location(s) in WAWF, as specified by the contracting officer.

Destination/Destination.

(3) *Document routing.* The Contractor shall use the information in the Routing Data Table below only to fill in applicable fields in WAWF when creating payment requests and receiving reports in the system.

Routing Data Table*

<i>Field Name in WAWF</i>	<i>Data to be entered in WAWF</i>
Pay Official DoDAAC	HQ0338
Issue By DoDAAC	N00014
Admin DoDAAC	N66020
Inspect By DoDAAC	NA
Ship To Code	NA
Ship From Code	NA
Mark For Code	NA
Service Approver (DoDAAC)	NA
Service Acceptor (DoDAAC)	NA
Accept at Other DoDAAC	NA
LPO DoDAAC	NA
DCAA Auditor DoDAAC	HAA632
Other DoDAAC(s)	NA

*(*Contracting Officer: Insert applicable DoDAAC information or "See schedule" if multiple ship to/acceptance locations apply, or "Not applicable.")*

(4) *Payment request and supporting documentation.* The Contractor shall ensure a payment request includes appropriate contract line item and subline item descriptions of the work performed or supplies delivered, unit price/cost per unit, fee (if applicable), and all relevant back-up documentation, as defined in DFARS Appendix F, (e.g. timesheets) in support of each payment request.

(5) *WAWF email notifications.* The Contractor shall enter the e-mail address identified below in the "Send Additional Email Notifications" field of WAWF once a document is submitted in the system.

Not applicable
Not applicable

(g) *WAWF point of contact.* (1) The Contractor may obtain clarification regarding invoicing in WAWF from the following contracting activity's WAWF point of contact.

For clarification regarding invoicing contact: Navy WAWF Help Line: 1-800-756-4571 (Option 6). For Payment Issues Only contact: ONR.NCR.BD021.list.All@navy.mil

(2) For technical WAWF help, contact the WAWF helpdesk at 866-618-5988.

(End of clause)

PGI 252.204-0002 PGI: Line Item Specific: Sequential ACRN Order*

These instructions are provided for the Contract Payment Office (DFAS Columbus) only, and are not contractor instructions.
There is more than one ACRN within a contract line item (i.e., informational subline items contain separate ACRNs), and the contracting officer intends funds to be liquidated in ACRN order.

This applies to all CLIN(s) and/or all SLIN(s).

ONR 0046 Invoices

Invoices shall be submitted in accordance with Section G of the basic contract or ordering agreement.

ONR 0047 Allotment of Funds- Task Order

- (a) It is hereby understood and agreed that this task order will not exceed a total amount of \$2,953,163; including an estimated cost of \$2,823,479 and a fixed fee of \$129,684.
- (b) CLIN 0001 will not exceed a total amount of \$2,953,163, including an estimated cost of \$2,823,479 and a fixed fee of \$129,684. The total amount presently available for payment and allotted to CLIN 0001 of this order is \$350,000, including an estimated cost of \$334,630 and a fixed fee of \$15,370. It is estimated that the amount allotted of \$350,000 will cover the period from date of award through November 16, 2014.

ONR 0118 Type of Order

This is a cost plus fixed fee task order.

ONR 5252.204-9722 Electronic Document Access (APR 2012)

The Office of Naval Research (ONR) award and modification documents are now available via the Electronic Document Access System (EDA). EDA is a web-based system that provides secure online access, storage, and retrieval of awards and modifications to Department of Defense (DoD) employees and vendors. An ONR representative will enter the contact information for vendor notification of up to two (2) vendor representatives into EDA for each contract. Once an executed ONR contract document is loaded into EDA, the designated vendor representative(s) will automatically receive an email notification that the document is available in EDA. The vendor is responsible for retrieving the document from EDA; ONR will no longer mail hard copies to vendors.

Each vendor is responsible for providing ONR with their vendor representatives' contact information as well as any changes to their contact information for each ONR contract. Vendors shall submit EDA vendor representative contact information changes to the cognizant ONR Contract Specialist or Contracting Officer of each ONR contract. Each request to change EDA vendor representative contact information shall include the following information:

1. Contract number
2. Email address
3. First name
4. Last name
5. Organization

Users must be aware that EDA inactivates user accounts for non-use after 90 days. Failure to use your account will result in inactivation. A password reset and EDA POC approval is required to reactivate account.

SECTION H - Special Contract Requirements

ONR 0070 Consent to Subcontract and/or Hire Consultants

The services of the following subcontractors and/or consultants have been identified as necessary for the performance of this contract:

(Amounts shown below are inclusive of the base period AND unexercised option years.)

Edison Welding Institute: \$111,741

Bob Schaffran: \$130/HR; \$124,800 Labor; \$5,585 Travel
Victoria Dlugokecki: \$150/HR; \$144,000 Labor; \$19,850 Travel
Barry Espeseth: \$125/HR; \$120,000 Labor; \$20,772 Travel
Richard Storch: \$125/HR; \$120,000 Labor; \$45,000 Travel

The preceding listing of subcontracts were evaluated during negotiations as required by Paragraph (j) of the contract clause at FAR 52.244-2 entitled "Subcontracts" and therefore do not require consent in accordance with paragraphs (c) and (e) of the Subcontracts clause. This consent is based upon the information submitted by the prime contractor in accordance with FAR 52.244-2 (e) (1) (i) through (vii).

For additional subcontracts beyond those listed above, the Contracting Officer's written consent to subcontract is only required in accordance with Paragraphs (b), (c), and (d) of FAR 52.244-2.

ONR has delegated contract administration to the Administrative Contracting Officer (ACO) at the cognizant Contract Administration Office (Block 7 of this DD Form 1155 or Block 6 of the Standard Form 26). Although ONR has provided authority to subcontract for the preceding list of subcontracts, ONR is not retaining any post award function for the consent of subcontracts in accordance with FAR 42.302(a)(51). Therefore, any consents to subcontract required in accordance with FAR 52.244-2 after contract award shall be submitted to the ACO for action.

ONR 0121 Subsequent Task Order

The procedures for subsequent task order competition and for evaluation of the proposals are described in Section H of the basic contract. With the inclusion of this clause, the contracting officer is providing fair notice of the Government's intent to place a subsequent task order and an opportunity for any submitted proposal to be fairly considered for that subsequent task order listed on Exhibit A, the DD1423. A description of the goals for the subsequent task order is located in N00014-14-D-0377,

ONR 5252.237-9705 Key Personnel (DEC 1988)

(a) The Contractor agrees to assign to the contract tasks those persons whose resumes were submitted with its proposal and who are necessary to fulfill the requirements of the contract as "key personnel". No substitutions may be made except in accordance with this clause.

(b) The Contractor understands that during the first ninety (90) days of the contract performance period, no personnel substitutions will be permitted unless these substitutions are unavoidable because of the incumbent's sudden illness, death or termination of employment. In any of these events, the Contractor shall promptly notify the Contracting Officer and provide the information described in paragraph (c) below. After the initial ninety (90) day period the Contractor must submit to the Contracting Officer all proposed substitutions, in writing, at least 30 days in advance, 90 days if security clearance must be obtained, of any proposed substitution and provide the information required by paragraph (c) below.

(c) Any request for substitution must include a detailed explanation of the circumstances necessitating the proposed substitution, a resume for the proposed substitute, and any other information requested by the Contracting Officer. Any proposed substitute must have qualifications equal to or superior to the qualifications of the incumbent. The Contracting Officer or his/her authorized representative will evaluate such requests and promptly notify the Contractor in writing of his/her approval or disapproval thereof.

(d) In the event that any of the identified key personnel cease to perform under the contract and the substitute is disapproved, the contract may be immediately terminated in accordance with the Termination clause of the contract.

The following are identified as key personnel:

Director: Kevin Carpentier
Technical Director: Bob Schaffran
Deputy Director: Dale Orren
Business Manager: Larry Karns

SECTION J - List of Documents, Exhibits and Other Attachments

Attachment Number	Attachment Title	Date	Number of Pages	Cross Reference Materials	Document Version
Exhibit A	CDRLs	08/20/2014	1		BASE
Encl. 1	Enclosure 1	08/20/2014	2		BASE
1	NSAM COE Statement of Work	08/20/2014	10		BASE

CONTRACT DATA REQUIREMENTS LIST (2 Data Items)						Form Approved OMB No. 0704-0188	
<p>The public reporting burden for this collection of information is estimated to average 220 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.</p>							
A. CONTRACT LINE ITEM NO. 0001		B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER <u>X</u>			
D. SYSTEM/ITEM NSAM COE Project Dev & Mgmt		E. CONTRACT/PR NO. N00014-14-D-0377-0002		F. CONTRACTOR ATI dba SCRA Applied R&D			
1. DATA ITEM NO. A001	2. TITLE OF DATA ITEM Project Final Report			3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.)		5. CONTRACT REFERENCE Statement of Work		6. REQUIRING OFFICE ONR Code 03TMT			
7. DD 250 REQ See Block 16	9. DIST STATEMENT REQUIRED See Block 16	10. FREQUENCY OTIME	12. DATE OF FIRST SUBMISSION See BLK 16	14. DISTRIBUTION			
8. APP CODE AD		11. AS OF DATE See BLK 16	13. DATE OF SUBSEQUENT SUBMISSION See BLK 16	a. ADDRESSEE		b. COPIES	
					Draft	Final	
					Reg	Repro	
16. REMARKS See Attachment 3 of the basic Contract for Reports format. Block 7: DD250 may be required depending on nature of specific technical project. Block 9: Distribution Statement depends on nature and requirements of specific technical project. Typically, final reports are Dist. A, C, or D as necessary. Block 11: Final Reports are due 30 days after project completion unless otherwise directed from ONR Program Officer. Block 12: Program Officer reserves the right to review and approve project final reports depending on project specifics. If program officer elects to review draft, draft is due 10 days after completion of project unless otherwise directed. Otherwise, final report due 30 days after completion of technical project. Block 13: If program officer reviews draft, final version of report due 20 days after receipt of comments from program officer.				See Enclosure I			
				15. TOTAL → 0 0 0			
1. DATA ITEM NO. A002	2. TITLE OF DATA ITEM All other ManTech Program Deliverables as required			3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.)		5. CONTRACT REFERENCE Statement of Work		6. REQUIRING OFFICE ONR Code 03TMT			
7. DD 250 REQ No	9. DIST STATEMENT REQUIRED See Block 16	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION ASREQ	14. DISTRIBUTION			
8. APP CODE N/A		11. AS OF DATE ASREQ	13. DATE OF SUBSEQUENT SUBMISSION ASREQ	a. ADDRESSEE		b. COPIES	
					Draft	Final	
					Reg	Repro	
16. REMARKS This item is for data call responses and other COE- level documents, including but not limited to fiscal planning spreadsheets or benchmark information, as requested by the ONR ManTech Director, Program Office, or their designees (support contractor, etc.). Contractor format is acceptable, unless ONR Program Officer format specified with applicable data call or applicable ManTech guidance documents. 9. Distribution statement to be provided as per specific deliverable document				See Enclosure I			
				15. TOTAL → 0 0 0			
G. PREPARED BY Neil Graf		H. DATE 20140819		I. APPROVED BY		J. DATE 20140820	

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

**ENCLOSURE NUMBER 1
CONTRACT DATA REQUIREMENTS LIST
INSTRUCTIONS FOR DISTRIBUTION**

DISTRIBUTION OF TECHNICAL REPORTS AND FINAL REPORT
(A SF 298 must accompany the final report)

ADDRESSEE	DODAAC CODE	NUMBER OF COPIES	
		UNCLASSIFIED / UNLIMITED	UNCLASSIFIED / LIMITED AND CLASSIFIED
Program Officer: Neil Graf ONR Code 03TMT E-Mail: neil.graf@navy.mil	N00014	1	1
Administrative Contracting Officer*	N66020	1	1
Director, Naval Research Lab Attn: Code 5596 4555 Overlook Avenue, SW Washington, D.C. 20375-5320 E-mail: reports@library.nrl.navy.mil	N00173	1	1
Defense Technical Information Center 8725 John J. Kingman Road STE 0944 Ft. Belvoir, VA 22060-6218 E-mail: trn@dtic.mil	11J4701	1	1

* Send only a copy of the transmittal letter to the Administrative Contracting Officer; do not send actual reports to the Administrative Contracting Officer.

ELECTRONIC SUBMISSIONS OF TECHNICAL REPORTS IS PREFERRED AND ENCOURAGED. ELECTRONIC SUBMISSION SHOULD BE SENT TO THE E-MAIL ADDRESSES PROVIDED IN THE ABOVE TABLE, HOWEVER PLEASE NOTE THE FOLLOWING:

- Only Unlimited/Unclassified document copies may be submitted by e-mail.
- Unclassified/Limited has restricted distribution and a classified document (whether in its entirety or partially) is to be distributed in accordance with classified material handling procedures.
- Electronic submission to DIRECTOR, NAVAL RESEARCH LAB, shall be unclassified/unlimited reports and 30 pages or less. If unclassified and more than 30 pages, hardcopies of reports must be mailed.
- Electronic submission to DTIC shall be unclassified/unlimited reports. If submission is for limited documents please send them in on a disk or sign up for DTIC's web-based document submission system at <http://www.dtic.mil>. DTIC prefers .pdf, .tif, and .ps files; however, other formats will also be accepted. **NOTE:** DTIC can no longer accept the following file types via email: password protected, zipped or compressed files, file with the extensions: *.vbs, *.cmd, *.exe, *.bat, *.com, *.mp3, *.eml and *.dll.

If the Program Officer directs, the Contractor shall make additional distribution of technical reports in accordance with a supplemental distribution list provided by the Program Officer.

DISTRIBUTION OF PROGRESS REPORTS, which are NOT, Technical Reports

The minimum distribution for reports that are not technical reports is as follows:

ADDRESSEE	DODAAC CODE	NUMBER OF COPIES	
		UNCLASSIFIED / UNLIMITED	UNCLASSIFIED/ LIMITED AND CLASSIFIED
Program Officer: Neil Graf ONR Code 03TMT E-Mail: neil.graf@navy.mil Office of Naval Research 875 North Randolph St. Arlington, VA 22203-1995	N00014	1	1
Administrative Contracting Officer*	N66020	1	1

*Send only a copy of the transmittal letter to the Administrative Contracting Officer; do not send actual reports to the Administrative Contracting Officer.

**Naval Shipbuilding and Advanced Manufacturing
Center of Excellence (NSAM COE)
STATEMENT OF WORK
Project Development and Management**

1.0 Overview

1.1 Background of Navy Manufacturing Technology (ManTech) Program

The Secretary of Defense established a Manufacturing Technology Program to further the national security objectives of Section 2501(a) of U. S. Code Title 10 – Armed Forces, through the development and application of advanced manufacturing technologies and processes that will reduce the acquisition and supportability costs of defense weapon systems and reduce manufacturing and repair cycle times across the life cycles of such systems. The purpose of the program is to improve the manufacturing quality, productivity, technology, and practices of business and workers providing goods and services to the Department of Defense (DoD). DoD Directive 4200.15 implements the Manufacturing Technology Program, and it dictates that DoD is to rely on private sector investment and the "free enterprise" system to provide the manufacturing technology necessary to produce DoD material. The Directive mandates ManTech investments are to be directed at improving the quality, productivity, technology, and practices of business and workers providing goods and services to the DoD.

The Navy Manufacturing Technology (ManTech) Program, operated out of the Office of Naval Research (ONR), is focused on affordability improvements for specific key acquisition platforms as defined in the Navy ManTech Investment Strategy. Key platforms currently targeted include: the CVN 78 Class carrier; the DDG 51 Class destroyer; the VIRGINIA Class Submarine / OHIO Replacement Program; the Littoral Combat Ship (LCS); and the Joint Strike Fighter (JSF). ONR ManTech helps these Navy programs achieve their respective affordability goals by transitioning developed manufacturing technology which, when implemented, results in needed cost reduction or cost avoidance.

Navy ManTech executes through Centers of Excellence using this key acquisition platform approach to develop cost reduction/avoidance platform portfolios and specific projects. There are presently seven Navy ManTech Centers of Excellence (COEs), and they serve as focal points for the development and technology transfer of new and advanced manufacturing processes and technology in a cooperative environment with industry, academia, and the Naval Research Enterprise. The COEs serve as corporate repositories of expertise in particular technological areas and collaborate with acquisition Program Executive Offices (PEOs) / Program Offices (POs) and relevant industry

to identify and resolve manufacturing issues impacting the key Navy acquisition platforms. The COEs develop and demonstrate manufacturing technology solutions for identified Navy manufacturing requirements, provide consulting services to naval industrial activities and industry, and facilitate the implementation of developed manufacturing technologies.

1.2 Overview of NSAM COE

Inasmuch as the assigned missions of the Office of Naval Research (ONR) Manufacturing Technology (ManTech) Naval Shipbuilding and Advanced Manufacturing Center of Excellence (NSAM COE) are dynamic, this Statement of Work (SOW) is not intended to be all-inclusive or restrictive, but is intended to provide a broad framework and general scope of the work to be performed at the NSAM COE. This SOW does not represent a commitment to, or imply funding for, specific projects or programs. The ONR ManTech work requirements are developed through strategic planning and program plans.

The Contractor shall, in accordance with the provisions of this Contract, provide the resources, intellectual leadership, and management expertise necessary and appropriate to managing and operating the NSAM COE to accomplish its primary mission. The primary mission of the NSAM COE is to develop advanced manufacturing technologies and deploy them in U.S. shipyards and other relevant industry, with the goal of facilitating industry improvements and ultimately reducing the cost and time required to build and repair naval ships and other key naval platforms, as defined in the ONR ManTech Investment Strategy.

In addition, the NSAM COE shall perform all supporting functions for a Navy ManTech Center of Excellence, such as serving as a corporate repository of expertise in its particular technological area; performing special projects and industry surveys related to the mission as required; planning and conducting outreach activities to increase awareness of the NSAM COE and disseminate manufacturing technology throughout the nation's shipyards and industrial base to achieve additional implementations beyond the primary implementation site; and any other functions as assigned by the ONR ManTech Division.

1.3 NSAM COE Core Mission and Scope of Work

The core mission and function of the NSAM COE is to identify, develop, and facilitate the deployment of, to U.S. shipyards and other industrial facilities, advanced shipbuilding and manufacturing technologies to reduce the cost and time to build and repair key naval platforms.

The primary focus of the Center is expected to be on shipbuilding and shipyard improvements as reflected in the current Navy ManTech Investment Strategy which is focused largely on submarine, carrier, and surface combatant platforms. However, since the current ManTech Investment Strategy also includes the F-35 Joint Strike Fighter, projects intended to help aircraft assembly and fabrication may be developed and executed through the NSAM COE as well. Based on the

current Navy ManTech Investment Strategy, it is anticipated that ~75-80% of projects and funding would be directed towards shipbuilding-related efforts, with the balance directed towards aircraft assembly and related efforts. However, as the Navy ManTech Investment Strategy is updated annually, the percentage of work assigned to various platforms is expected to vary over time.

In accomplishing its mission, the NSAM COE will work closely with the Navy's acquisition community as well as Navy shipyards and other relevant industrial facilities to identify manufacturing technology issues that negatively impact shipyard or facility output or products, with respect to both cycle-time and cost.

The NSAM COE will then solicit, select, award, and manage projects to address the identified cycle-time and cost reduction issues.

Types of technology areas include, but are not limited to, the following:

- Design for Producibility/Design for Manufacturability
- Development of build/assembly strategies
- Modeling and Simulation technologies
- Model-based tools and approaches to optimize producibility
- Intelligent manufacturing planning and factory execution
- Elimination of inefficiencies in design optimization, material usage, labor utilization, work flow, etc.
- Supply chain procedures and improvements, such as network centric manufacturing capabilities to facilitate resilient and adaptable supply chains
- Development of more efficient structural fabrication product lines
- Streamlining of outfitting operations
- Prediction and reduction of weld distortion
- Inspection technologies, such as digital radiography, ultrasonic inspections, etc.

The Contractor will operate and manage the NSAM COE in its mission to develop naval platform-related manufacturing technologies and transition the technology for implementation in U.S. shipyards and other industrial facilities. In addition to accomplishing the NSAM COE's core mission, the Contractor shall manage, operate, sustain, and enhance the NSAM COE's ability to function as an ONR ManTech Center of Excellence.

The Contractor shall, with the highest degree of vision, quality, integrity, and technical excellence, maintain a strong scientific and engineering resource base responsive to manufacturing technology issues of national importance. The scope of work of this Contract includes:

1. Operating and managing the COE in an efficient, cost effective, and innovative manner to accomplish its core mission of developing and

facilitating the implementation of advanced manufacturing technologies to U.S. shipyards and other industrial facilities to reduce the cost and time to build and repair key naval platforms. (Section 2.0)

2. Organizing, facilitating and executing a naval platform and shipyard/industrial base driven project selection process, supporting the key naval platform programs identified by the ONR ManTech Investment Strategy and the ONR Program Officer, in order to recommend technical work. Projects selected should be important to both the Navy and the naval industrial base that builds and/or repairs naval platforms. (Section 3.0).
3. Initiating and managing ManTech projects approved by the ONR Program Officer. Management of projects should include the use of an earned-value or similar methodology that tracks and relates technical progress, schedule, and funding. (Section 3.0)
4. Providing support of special projects or non-ManTech funded projects that relate to the COE mission, as directed by the ONR Program Officer. (Section 3.0)
5. Providing all required reporting, including COE-level and project-level deliverables, for the evaluation of the technical and financial progress of the Center and of each technical project. (Sections 2.0 and 3.0)
6. Planning, coordinating, and conducting outreach activities and projects to increase awareness of the NSAM COE and to facilitate technology transition and implementation of ManTech-developed manufacturing technology at additional shipyards and industrial facilities beyond the initial implementation site of any particular technical project. (Section 2.0)
7. Traveling in support of the NSAM COE. Travel shall be planned and conducted in such a fashion to provide maximum flexibility and use of time in support of the COE. All travel shall be in accordance with the FAR and applicable federal travel regulations. (Sections 2.0 and 3.0)

2.0 Project Development and Management

In support of the ONR ManTech Program, the NSAM COE shall identify, develop and transition shipbuilding and advanced manufacturing technologies to U.S. shipyards and other industrial facilities to reduce the cost and time to build and repair key naval platforms, as identified in the Navy ManTech Investment Strategy. Primary means of accomplishing this core mission is through the development and execution of technical projects whose results will be transitioned to industry.

The three basic types of ManTech projects are:

- Standard projects: typically 12-36 months duration; typically \$500K - \$3M funding range.
- Mega Rapid Response projects - urgent requirement. Maximum 9 months duration and \$500K funding (nominally \$150K - \$500K) or limits set per current ONR guidance.
- Rapid Response projects – smaller, urgent requirement. Typically, 4-6 month duration and \$50K-\$100K range

Standard Projects and Mega Rapid Response projects will be managed under Delivery Order 0002 but will be executed under other delivery orders awarded under the base contract. Rapid Response projects will be managed and executed under Delivery Order 0002.

Note: Non-ManTech Projects - At the discretion of the ONR Program Officer, the NSAM COE may execute and manage technical projects, other than Navy ManTech projects, that are related to shipbuilding, aircraft fabrication, or other naval- or defense-related industries or platforms. Examples of these projects may include, but are not limited to, projects from other ONR Technical Codes, congressional interest ("plus-up") projects, or Office of the Secretary of Defense (OSD)-funded Manufacturing Science and Technology efforts. These Non-ManTech projects are typically awarded under separate, individual delivery orders and the management of these efforts is charged directly to those projects, not Delivery Order 0002, unless coordinated with ONR ManTech.

2.1 Project Development

Project development is generally broken down into the following three steps.

Note: The below information is based on current ONR ManTech policy and guidance. ONR reserves the right to revise and refine the below project development process.

2.1.1 Issue Identification

The Contractor, via their relationships with Navy PEOs, program offices, warfare centers, etc., as well as their relationships with shipbuilders and other relevant industry, will identify shipbuilding and advanced manufacturing technology issues and/or needs. These needs shall be turned into ManTech project candidates. The Contractor shall document these issues as appropriate by generating an issue sheet, quad chart, and/or other documentation as appropriate.

2.1.2 Candidate Project Selection

The Contractor shall continuously prioritize candidate projects so that resources may be properly allocated. This prioritization shall be based on interactions between the NSAM COE, the ONR ManTech Program Officer, shipyards and other industry, and various Systems Commands program offices (Program Executive Offices, Program Management Offices, etc.). The Contractor shall assist in matching these needs to recommended ManTech projects, Mega Rapid Response projects, Rapid Response projects, or other proposed solutions.

Project selection will be in accordance with guidance and timelines set by the Navy ManTech Office in effect at that time. Currently, the COEs present their prioritized list of candidate projects to the ONR ManTech Director and Program Officers at a Candidate Project Selection Meeting in the winter of the prior fiscal year (i.e., candidate projects for Fiscal Year 2015, which begins October 1, 2014, will be presented December 2013). The ManTech Director and the Program Officers will then select project ideas for further development based on anticipated availability of funds. Off-cycle project candidates will be considered based on need and funding availability. This project selection process should also be in keeping with the approved ManTech Investment Strategy and any key platforms or PEO(s) identified within.

2.1.3 Individual Project Development

Projects may be developed as ManTech projects, Mega Rapid Response projects, or Rapid Response projects. As the majority of efforts are expected to be ManTech projects, the ManTech project development process is described below. Mega Rapid Response and Rapid Response projects may have an alternate, simplified development process as described by ONR guidance and/or Program Officer direction.

As part of project development, the Contractor will endeavor to obtain quality cost share from participating project subcontractors, program offices, etc. as well as identify available leveraging opportunities and other methods to augment Navy ManTech investment.

Upon candidate selection and approval by the ONR ManTech Office, each ManTech project shall be initiated under a three-step process.

- 1. Program Planning Document (PPD) Development:** The Contractor will coordinate the development of a Program Planning Document with teaming partners and Navy points of contact. This PPD will contain a list of performers/ team members, estimated project costs, technical statement of work outline, benefit information, draft schedules, draft metrics, and other information as requested by the Program Officer. This PPD will then be submitted

to the Program Officer for review and approval.

For Navy ManTech-funded projects, it is expected that the Contractor will employ a strategy of utilizing subcontracting authority as appropriate with industry (weapons system prime contractors, system integrators, and/or their associated vendors and suppliers) or other commercial entities where expertise or technologies are required to be deployed or are already resident.

Upon approval of the PPD, the ONR Program Officer will issue the NSAM COE a Project Development Request (PDR) which authorizes the COE to develop a project plan for the proposed effort. The PDR signals an intention to provide, but is not a guarantee of, eventual project funding.

2. **Project Plan Submittal:** The Contractor will submit a Project Plan (also known as the proposal package) to the Navy for approval. This plan shall generally include: an executive summary; background; goals, objectives, and benefits; technical scope/approach and plans; technical analyses; financial spend plans; statements of work; schedules, milestones and deliverables; risk assessments; detailed cost and budget proposals; detailed cost analyses; benefits and savings analyses and summaries; investment cost sharing plans and cost leveraging summaries; technology transition plans (TTPs); and Stakeholder and Technical Assistant concurrences. The Contractor shall also develop award fee distribution plans tailored to the nature of the work to be performed in conjunction with the Award Fee Plan.
3. **Project Plan Review and Approval:** The ONR Program Officer will review the submitted Project Plan. If approved, the Program Officer will provide an analysis and approval document to the ONR Contracting Officer. The Contracting Officer will negotiate/award a new delivery order or delivery order modification for performance of the approved project.

2.2 Project Management

Awarded projects are to be managed by the Contractor as instructed by the ONR Program Officer. This includes, but is not limited to, providing technical, programmatic, and financial oversight and guidance to the project team; coordinating project activities with government stakeholders and technical authorities; and completing all project management documentation (monthly and quarterly reports, quad charts, project final report, etc.). It is expected that for each awarded project, the Contractor will hold regular status telecons with the project IPT members and hold project kickoff meetings, periodic project status

and milestone gate reviews, and final reviews. Projects shall be tracked using the EVMs or equivalent process referenced in Section 2.3.1. In addition, projects shall be evaluated (generally semi-annually) in accordance with the applicable Contract Award Fee plan and direction from the ONR Program Officer and/or Fee Determining Official.

2.3 Project Management of Existing Center for Naval Shipbuilding Technology Projects

At the discretion of ONR, the Contractor may be asked, upon Contract award, to assume management responsibilities of some or all of the ongoing projects of the Center for Naval Shipbuilding Technologies (CNST). See Request for Proposal for additional information.

2.4 Project Development and Management Meetings and Travel

NSAM COE personnel shall expect to travel and participate in meetings in support of Project Development and Management efforts. Typically, these meetings would include, but not be limited to: future FY planning meetings at specific shipyards and industrial facilities; project kickoff and coordination meetings, final project reviews, etc.

3.0 Assumption of Project Management Responsibilities of Continuing CNST Projects

3.1 Overview

Delivery Orders 0001 (Center Operations and Management) and 0002 (ManTech Project Development and Management) of the current Center for Naval Shipbuilding Technologies (CNST) contract N00014-09-D-0584 expire August 23rd, 2014. It is not anticipated that these delivery orders can or will be extended beyond this date.

The government does expect that one or more project delivery orders, each containing one or more technical projects, will have periods of performance that extend beyond this August 23rd, 2014 date. This may, but not necessarily, include one or more of the following: Delivery Order 0003, Delivery Order 0006, Delivery Order 0014, and/or additional delivery orders. Project Management activities for these efforts are currently performed on Delivery Order 0002. Therefore, there is a need to assume the project management responsibilities for continuing CNST projects, contained on these delivery orders, that up to the date of expiration would be performed on the current Delivery Order 0002.

The applicable award fee plan and funding pools for any and all continuing CNST projects eligible for award fee are contained on Delivery Order 0005 of the current contract. It is expected that this delivery order will also extend beyond the August 23rd, 2014 date. Labor associated with

administering the award fee plan and performing award fee evaluations on projects is currently performed on Delivery Order 0001 (if a center-level activity) or Delivery Order 0002 (if a project-level activity). Therefore, there is a need to assume labor associated with award fee management of these continuing CNST projects as well, as prescribed under Delivery Order 0005 and the applicable award fee plan.

If exercised, the assumption of project management and all award fee responsibilities for these existing projects and delivery orders will be performed under Option A of Delivery Order 0002 of the Naval Shipbuilding and Advanced Manufacturing (NSAM) Center of Excellence (COE) contract. This document provides the statement of work for these activities.

3.2 Project Management

Continuing CNST projects are to be managed by the NSAM Contractor as instructed by the ONR Program Officer. This includes, but is not limited to, providing technical, programmatic, and financial oversight and guidance to the project team; coordinating project activities with government stakeholders and technical authorities; and completing all project management documentation (monthly and quarterly reports, quad charts, project final report, etc.). It is expected that for each awarded project, the Contractor will hold regular status telecons with the project IPT members and hold periodic project status and milestone gate reviews, and final reviews. Projects shall be tracked to manage schedule, performance, and budget.

NSAM COE personnel shall expect to travel and participate in meetings in support of these Project Management efforts. Typically, these meetings would include, but not be limited to project coordination meetings, go/ no-go gate reviews, final project reviews, etc.

3.3 Award Fee Evaluations

The Contractor shall administer the applicable award fee plan for the continuing CNST projects.

The Contractor shall perform semi-annual award fee evaluations wherein assessments are made for individual technical projects in accordance with the applicable Award Fee plan for these continuing efforts and direction from the ONR Program Officer and/or Fee Determining Official.

The Contractor shall also prepare semi-annual award fee assessments as indicated in the applicable Award Fee Plan for these continuing efforts.

4.0 Project-Level Deliverables

For each ManTech project, the Contractor shall submit:

- Project Program Planning Document (PPD)
- Project Plan

In addition, the Contractor shall submit project-level ManTech deliverables as specified in the Annual Navy ManTech Guidance, including but not limited to:

- Technology Transition Plan (TTP)
- Projects Database Information
- Project Book Information
- Project Quad Chart
- Project Briefings, as applicable
- Success Story, as applicable

Other deliverables may include any and all prototypes, mock-ups, tooling, software, samples, and components purchased and/or fabricated under ManTech funding during the execution of individual projects, if applicable. This may also include process specifications, designs (both components and tooling), manufacturing cost data for tooling and component fabrication, and all test results.

5.0 Project-Level Data Requirements

The Contractor shall submit all data requirements as specified in the Contract Data Requirements List (DD Form 1423).

- CDRL A001: Project Final Report
- CDRL A002: All other ManTech Program deliverables as required

6.0 Contractor Manpower Reporting

The contractor shall report ALL contractor labor hours (including subcontractor labor hours) required for performance of services provided under this Task Order for the Naval Shipbuilding and Advanced Manufacturing Center of Excellence Project Development and Management via a secure data collection site. The contractor is required to completely fill in all required data fields using the following web address: <http://www.ecmra.mil/>

Reporting inputs will be for the labor executed during the period of performance during each Government fiscal year (FY) which runs October 1 through September 30. While inputs may be reported any time during the FY, all data shall be reported no later than October 31 of each calendar year, beginning with 2013. Contractors may direct questions to the help desk at <http://ecmra.mil/>